Amendments to the Claims:

Claims 1, 3, 4, 12, 23 and 34 have been amended herein. Please note that all claims

currently pending and under consideration in the referenced application are shown below. Please

enter these claims as amended. This listing of claims will replace all prior versions and listings

of claims in the application.

Listing of Claims:

1. (Currently Amended) A transmitter operable to communicate with a receiver via a

wireless communication channel, wherein the transmitter comprises:

a processing subsystem; and

a transmitter subsystem coupled to the processing subsystem;

wherein the processing subsystem is configured to cover different portions of an initial

data stream comprising an I/Q pair of modulated symbols to be transmitted on a

first wireless communication channel with at least two different spreading codes;

and

wherein the transmitter subsystem is configured to transmit a resulting final data stream

on a first wireless communication channel.

2. (Original) The transmitter of claim 1, wherein the processing subsystem comprises a

demultiplexer configured to demultiplex the initial data stream into a plurality of intermediate

data streams.

3. (Currently Amended) The transmitter of claim 2, wherein the processing subsystem is

configured to cover each of the plurality of intermediate data streams with one of a set of

spreading codes, wherein the set of spreading codes includes the at least two different spreading

codes.

4. (Currently Amended) The transmitter of claim 3, wherein the processing subsystem is

configured to multiplex the plurality of intermediate data streams into the final data stream.

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5. (Original) The transmitter of claim 1, wherein the spreading codes are different-length

spreading codes.

6. (Original) The transmitter of claim 1, wherein the spreading codes are Walsh codes.

7. (Original) The transmitter of claim 6, wherein the spreading codes comprise +- and

++-- codes.

8. (Original) The transmitter of claim 1, wherein the initial data stream comprises a stream

of symbols.

9. (Original) The transmitter of claim 1, wherein the transmitter comprises a component of

a base station operable in a wireless communication system.

10. (Original) The transmitter of claim 1, wherein the transmitter comprises a component of

a mobile station operable in a wireless communication system.

11. (Original) The transmitter of claim 1, wherein the processing subsystem is configured to

cover an additional data stream to be transmitted on a second wireless communication channel

with a single spreading code and wherein the transmitter subsystem is configured to transmit the

resulting data stream on the second wireless communication channel, wherein the single

spreading code is different than the at least two different spreading codes used to cover the initial

data stream.

12. (Currently Amended) A receiver operable to communicate with a transmitter via a

wireless communication channel, wherein the receiver transmitter comprises:

a processing subsystem; and

a receiver subsystem coupled to the processing subsystem;

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wherein the receiver subsystem is configured to receive an initial data stream via a first

wireless communication channel; and

wherein the processing subsystem is configured to decode different portions of the initial

data stream comprising an I/Q pair of modulated symbols using at least two

different spreading codes.

13. (Original) The receiver of claim 12, wherein the processing subsystem comprises a

demultiplexer configured to demultiplex the initial data stream into a plurality of intermediate

data streams.

14. (Original) The receiver of claim 13, wherein the processing subsystem is configured to

decode each of the intermediate data streams using one of a set of spreading codes, wherein the

set of spreading codes includes the at least two different spreading codes.

15. (Original) The receiver of claim 14, wherein the processing subsystem is configured to

multiplex the intermediate data streams into a decoded data stream.

16. (Original) The receiver of claim 12, wherein the spreading codes are different-length

spreading codes.

17. (Original) The receiver of claim 12, wherein the spreading codes are Walsh codes.

18. (Original) The receiver of claim 17, wherein the spreading codes comprise +- and

++-- codes.

19. (Original) The receiver of claim 12, wherein the decoded data stream comprises a stream

of symbols.

20. (Original) The receiver of claim 12, wherein the receiver comprises a component of a

base station operable in a wireless communication system.

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21. (Original) The receiver of claim 12, wherein the receiver comprises a component of a

mobile station operable in a wireless communication system.

22. (Original) The receiver of claim 12, wherein the processing subsystem is configured to

decode an additional data stream received via a second wireless communication channel with a

single spreading code, wherein the single spreading code is different than the at least two

different spreading codes used to decode the initial data stream.

23. (Currently Amended) A method for transmitting information via a wireless

communication channel, comprising:

providing an initial data stream to be transmitted on a first wireless communication

channel;

covering different portions of the initial data stream comprising an I/Q pair of modulated

symbols with at least two different spreading codes; and

transmitting a resulting final data stream on a first wireless communication channel.

24. (Original) The method of claim 23, further comprising demultiplexing the initial data

stream into a plurality of intermediate data streams.

25. (Original) The method of claim 24, wherein covering the initial data stream with at least

two different spreading codes comprises covering each of the intermediate data streams with one

of a set of spreading codes, wherein the set of spreading codes includes the at least two different

spreading codes.

26. (Original) The method of claim 25, further comprising multiplexing the intermediate

data streams into the final data stream.

27. (Original) The method of claim 23, wherein the spreading codes are different-length

spreading codes.

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28. (Original) The method of claim 23, wherein the spreading codes are Walsh codes.

29. (Original) The method of claim 28, wherein the spreading codes comprise +- and ++-

- codes.

30. (Original) The method of claim 23, wherein the initial data stream comprises a stream of

symbols.

31. (Original) The method of claim 23, wherein the method is implemented in a base station

operable in a wireless communication system.

32. (Original) The method of claim 23, wherein the method is implemented in a mobile

station operable in a wireless communication system.

33. (Original) The method of claim 23, further comprising covering an additional data

stream to be transmitted on a second wireless communication channel with a single spreading

code and transmitting a corresponding data stream on the second wireless communication

channel, wherein the single spreading code is different than the at least two different spreading

codes used to cover the initial data stream.

34. (Currently Amended) A method for decoding information received via a wireless

communication channel, comprising:

receiving an initial data stream via a first wireless communication channel; and

decoding different portions of the initial data stream comprising an I/Q pair of modulated

symbols using at least two different spreading codes.

35. (Original) The method of claim 34, further comprising demultiplexing the initial data

stream into a plurality of intermediate data streams.

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36. (Original) The method of claim 35, further comprising decoding each of the intermediate

data streams using one of a set of spreading codes, wherein the set of spreading codes includes

the at least two different spreading codes.

37. (Original) The method of claim 36, further comprising multiplexing the intermediate

data streams into a decoded data stream.

38. (Original) The method of claim 34, wherein the spreading codes are different-length

spreading codes.

39. (Original) The method of claim 34, wherein the spreading codes are Walsh codes.

40. (Original) The method of claim 39, wherein the spreading codes comprise +- and ++-

- codes.

41. (Original) The method of claim 34, wherein the decoded data stream comprises a stream

of symbols.

42. (Original) The method of claim 34, wherein the method is implemented in a base station

operable in a wireless communication system.

43. (Original) The method of claim 34, wherein the method is implemented in a mobile

station operable in a wireless communication system.

44. (Original) The method of claim 34, further comprising decoding an additional data

stream received via a second wireless communication channel with a single spreading code,

wherein the single spreading code is different than the at least two different spreading codes used

to decode the initial data stream.

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